Rhinolophus acrotis brachygnathas, subsp. n.

Diagnosis.—Like Rh. acrotis Andersoni, but upper and lower tooth-rows, as well as mandible, distinctly shorter.

Skull and dentition (two skulls examined).—Although being apparently, on an average, larger than *Rh. a. Andersoni*, the present form has a smaller skull, smaller teeth, shorter tooth-rows and mandible (conf. measurements).

Colour.—The general colour of the single skin at my disposal (\mathfrak{P} imm.) is much darker than in the type of *Rh. a. Andersoni* (\mathfrak{F} imm.): greyish "drab" on the upperside, tinged with "mouse-grey" on the hiuder back; "ecru-drab" on the underside; base of hairs on the back of the same colour as the underside.

Type.— \mathcal{J} ad. (in alcohol). Ghizeh. Lower Egypt, Dec. 16th, 1891; collected and presented by Dr. J. Anderson. B. M. no. 92, 9, 9, 7. There is a second specimen (\mathfrak{g} imm., skin) in the Museum from the same locality.

Distribution.-Known only from Ghizeh.

Remarks.—The absence, even in immature individuals, of the lower p_3 and upper p^2 distinguishes this form sufficiently from the only species with which it could possibly be confounded, viz. *Rh. euryale* and *Rh. clivosus*.

Up to the present time three forms of Rh. acrotis have been described : Rh. acrotis (typicus) from Keren, Erytrea; Rh. a. Andersoni from the Eastern Egyptian Desert, about 22° N., 35° E.; and Rh. a. brachygnathus from the environs of Cairo.

Measurements of	Rh. ac	rotis brach	vgnathus	and And	lersoni.

	Rh. a. brachygnathus.	Rh. a. Andersoni*.	
	Type.	4 immature spcms., 5 skulls.	
	0	Max.	Min.
Forearm 3rd metacarpal 4th metacarpal 5th metacarpal Mandible, condylus to front of incisors Front of upper canine to back of m^3 , lower canine to back of m_3	$\begin{array}{c} \mathrm{mm.} \\ 47\cdot 5 \\ 32 \\ 33\cdot 7 \\ 33\cdot 8 \\ 12\cdot 6 \\ 7 \\ 7\cdot 6 \end{array}$	$\begin{array}{c} \text{mm.} \\ 46.8 \\ 29.5 \\ 31.2 \\ 32.2 \\ 13.5 \\ 7.8 \\ 8.5 \end{array}$	$\begin{array}{c} \text{mm.} \\ 44^{\circ}2 \\ 27 \\ 29^{\circ}7 \\ 30 \\ 13 \\ 7^{\circ}5 \\ 8^{\circ}2 \end{array}$

* It may well be noticed that all the (4) specimens, including the

Rhinolophus fumigatus exsul, subsp. n.

Diagnosis.—Apparently similar in all essential characters to Rh fumigatus (= Autinorii), but decidedly smaller. Forearm 49.5 mm.

External characters.—To judge from a dried skin, the shape of the nose-leaves and cars is the same as in *Rh. fumi-gatus.* The lateral margins of the sella bear the dense clothing of long hairs characteristic of the *fumigatus*-group of species; the hairing on the front face of the sella seems to be sparser and shorter than in the typical form. General colour above dark greyish "drab," darkest on the hinder part of the back, brighter drab on the underside of the body; base of hairs, throughout, dark smoke-grey.

Measurements.--- Under the next form.

Type.—Ad. (skin). Kitui, British East Africa, 3500 ft., Jan. 3rd, 1901; collected and presented by Mrs. H. Hinde. B. M. no. 1.5.6.3. Original no. 68. The type is the only specimen known to me.

Distribution.—Probably the whole of the Ukamba district. Remarks. — This is evidently a southern offshoot of Rh. fumigatus, cut off from the (Abyssinian) main stem of the species, and developed into a distinct race. From Rh. Deckeni, an inhabitant of nearly the same regions, it is easily distinguished by the longer and differently shaped nose-leaves, by having the margins of the sella clothed with long straight hairs, by the much smaller size (forearm in Rh. Deckeni 54.7 mm.), by having the 4th metacarpal only about 2 mm. longer than the 3rd (in Rh. Deckeni 5 mm. longer), by the comparatively very short 2nd phalanx of the 5th finger, &c. I have not seen a skull of this form; it will, no doubt, be found to have lost both the lower p_3 and the upper p^2 , agreeing in this respect with Rh. fumigatus and differing from Rh. Deckeni.

Rhinolophus Hihlebrandti eloquens, subsp. n.

Diagnosis.—A small race of Rh. Hildebrandti. Forcarm 57.7-60.5 mm.

Wings.-Rh. Hildebrandti is among the largest species of

type, of *Rh. a. Andersoni* are immature (though apparently full-grown or very nearly full-grown) individuals, as proved by the still not ankylosed epiphyses of the metacarpals and phalanges. This must be borne in mind when comparing their measurements with those of the adult *Rh. a. brachygnathus*. It will be seen that, notwithstanding their smaller size (and immature age), the specimers of *Rh. a. Andersoni* have markedly larger skulls and teeth than those of *Rh. a. brachygnathus*.

its genus: Rh. H. eloquens barely surpasses Rh. ferrumequinum. The reduction in size affects mainly the forearm and metaearpals, far less the phalanges. In the length of the forearm the largest specimens of Rh. H. eloquens fall short of the smallest individuals of the typical form; this character, therefore, evidently affords a most reliable mark of distinction between the two races. As to the metaearpals, maximum measurements of Rh. H. eloquens approach, very closely, minimum measurements of Rh. H. typicus.

Colour.—Rh. Hitdebrandti (4 skins) is dark greyish "drab" on the upperside, bright drab beneath. Rh. H. eloquens (3 skins) is tinged with "wood-brown" above, next to "broecoli-brown" beneath. Base of the hairs, on the upper and under sides, dark smoke-grey. Immature individuals (1 skin) are slightly duller in colour than adults.

Skull and dentition.—All the measurements markedly smaller than in typical Rh. Hildebrandti. 'The length of the upper and lower tooth-rows, as being almost quite independent of the individual variation, is the best character by which to distinguish between the skulls of the two forms (conf. measurements below). In Rh. Hildebrandti (6 skulls) the upper p^2 is nearly always present and easily perceptible; the lower p_3 very minute, but generally not completely wanting. In Rh. H. eloquens p^2 is exceedingly small, hair-fine, even under a strong lens; p_3 (as it appears from examination of four skulls) almost always wanting, even in immature specimens.

Type.—Ad. (sk.), unsexed. Entebbi, Uganda; collected and presented by F. J. Jackson, Esq. B. M. no. 99. 8. 4. 4. Three other specimens, from the same locality, are preserved in the Museum.

Distribution.—Probably the whole of the district surrounding Albert, Albert Edward, and Victoria Nyanza.

Remarks.—The present form is of great interest from a phylogenetic no less than from a zoogeographical point of view. Rh. Hildebrandti and Rh. fumigatus (=Antinorin) * form a well-defined group of species, agreeing in the general form of the ears, in the size and shape of the horseshoe, the sella, and the posterior connecting-process, in having the margins and front face of the sella clothed with long hairs, in the general form of the wings, the comparative shortness of the tail, and the more essential characters of the skull

* Together with *Rh. athiops*; but this species, although extremely interesting as the hitherto only known West-African representative of the group, has a more isolate position, differing much more from the two other species than these latter *inter se*.